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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1645  
Examiner : Kathleen M. Kerr  
Serial No. : 09/805,681  
Filed : March 14, 2001  
Inventors : Sangita Phadare  
: Kunitoshi Yamanaka  
: Ikunoshin Kato  
: Masayori Inouye  
Title : GENE ENCODING A  
: 4,5-DIHYDROXY  
: -2-CYCLOPENTAN-1-ONE  
: (DHCP), EFFLUX PROTEIN  
: RESISTANCE TO DHCP



35811

PATENT TRADEMARK OFFICE

Docket: 1137-R-00

Confirmation No.: 3645

Dated: March 4, 2003

AMENDMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Official Action dated November 6, 2002, Applicants amend as follows:

Marked-Up Version Showing Changes Made to the Specification**Please replace the Title with the following:**

Gene conferring resistance to the antibacterial encoding a 4,5-dihydroxy-2-cyclopenten-1-one (DHCP), the protein encoded by same, and applications thereof efflux protein promoting resistance to DHCP

**On page 9, please replace the last paragraph with the following:**

FIG. 4 The sequence homology between DEP (SEQ ID No. 3), Cmr (SEQ ID No. 4), CmrA (SEQ ID No. 5), CMI (SEQ ID No. 6), Cmx (SEQ ID No. 7), CmlV (SEQ ID No. 8), BcR (SEQ ID No. 9), Bmr3 (SEQ ID No. 10), YjcC (SEQ ID No. 11) and Tet (SEQ ID No. 12). Identical and similar sequences are marked with black and gray boxes, respectively. The consensus sequences for transmembrane proteins are marked with dotted lines and are represented as I, II, and III stretches.

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